

## CLAIMS

1. A JPEG2000 file comprising:
  - (a) said JPEG2000 file containing a plurality of boxes containing data  
5 suitable to render an image;
  - (b) at least one of said boxes being a metadata box; and
  - (c) including information within said metadata box describing the  
content of said image.

10 2. The JPEG2000 file of claim 1 wherein said information is in XML format.

3. The JPEG2000 file of claim 1 wherein said JPEG2000 file is compliant  
with the JPEG2000 standard.

15 4. The JPEG2000 file of claim 1 wherein said information provides  
interactivity with said image.

5. The JPEG2000 file of claim 4 wherein said interactivity includes providing  
a bounding region of a portion of said image.

20 6. The JPEG2000 file of claim 5 wherein said bounding region is rectangular.

7. The JPEG2000 file of claim 5 wherein additional information regarding said content is associated with said bounding region of said image.

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8. The JPEG2000 file of claim 1 wherein said information includes links to information external to said JPEG2000 file.

9. The JPEG2000 file of claim 1 wherein said information includes voice annotation.

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10. The JPEG2000 file of claim 1 wherein said information includes object boundary information.

11. The JPEG2000 file of claim 1 wherein said information includes textual information regarding the content of said image free from copyright information.

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12. The JPEG2000 file of claim 1 wherein said information is MPEG-7 data.

13. The JPEG2000 file of claim 12 wherein said MPEG-7 data is compliant with the MPEG-7 specification.

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14. The JPEG2000 file of claim 12 wherein said information includes binary data.

15. A JPEG2000 file comprising:

(a) said JPEG2000 file containing a plurality of boxes containing data suitable to render an image;

(b) at least one of said boxes being a UUID box; and

(c) including information within said UUID box describing the content of said image.

16. The JPEG2000 file of claim 15 wherein said information is in XML format.

17. The JPEG2000 file of claim 15 wherein said JPEG2000 file is compliant with the JPEG2000 standard.

18. The JPEG2000 file of claim 15 wherein said information provides interactivity with said image.

19. The JPEG2000 file of claim 18 wherein said interactivity includes providing a bounding region of a portion of said image.

20. The JPEG2000 file of claim 19 wherein said bounding region is rectangular.

21. The JPEG2000 file of claim 19 wherein additional information regarding said content is associated with said bounding region of said image.

22. The JPEG2000 file of claim 15 wherein said information includes links to information external to said JPEG2000 file.
23. The JPEG2000 file of claim 15 wherein said information includes voice annotation.
24. The JPEG2000 file of claim 15 wherein said information includes object boundary information.
25. The JPEG2000 file of claim 15 wherein said information includes textual information regarding the content of said image free from copyright information.
26. The JPEG2000 file of claim 15 wherein said information is MPEG-7 data.
27. The JPEG2000 file of claim 26 wherein said MPEG-7 data is compliant with the MPEG-7 specification.
28. The JPEG2000 file of claim 26 wherein said information includes binary data.
29. A JPEG2000 file comprising:

- (a) said JPEG2000 file being compliant with the JPEG2000 specification and containing a plurality of boxes containing data suitable to render an image; and
- (b) at least one of said boxes containing MEPEG-7 compliant description schemes.

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30. The JPEG2000 file of claim 29 further including information within at least one of a metadata box and a UUID box describing the content of said image wherein said information is in XML format.

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31. The JPEG2000 file of claim 29 wherein said JPEG2000 file includes a metadata box.

32. The JPEG2000 file of claim 30 wherein said information provides interactivity with said image.

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33. The JPEG2000 file of claim 32 wherein said interactivity includes providing a bounding region of a portion of said image.

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34. The JPEG2000 file of claim 33 wherein said bounding region is rectangular.

35. The JPEG2000 file of claim 33 wherein additional information regarding said content is associated with said bounding region of said image.

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42. The MPEG-7 description scheme of claim 41 wherein said description scheme is InlineMedia.

43. The MPEG-7 description scheme of claim 41 wherein said description scheme includes a choice of two different encoding schemes for data, namely, base16 and base64.

44. The MPEG-7 description scheme of claim 43 wherein said base16 is part of an element name MediaData16.

45. The MPEG-7 description scheme of claim 43 wherein said base64 is part of an element name MediaData64.

46. The MPEG-7 description scheme of claim 41 wherein said data is binary.

47. A JPEG2000 file comprising:

- (a) said JPEG2000 file containing a plurality of boxes containing data suitable to render an image;
- (b) at least one of said boxes being at least one of a metadata box and a UUID box; and
- (c) including information within said at least one of said metadata box and said UUID box indicating the location of binary data, within

said JPEG2000 file and not within said at least one of said metadata  
box and said UUID box, associated with said image.

48. The JPEG2000 file of claim 47 wherein said information is in XML format.

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49. The JPEG2000 file of claim 47 wherein said JPEG2000 file is compliant  
with the JPEG2000 standard.

50. The JPEG2000 file of claim 47 wherein said information provides  
interactivity with said image.

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51. The JPEG2000 file of claim 50 wherein said interactivity includes providing  
a bounding region of a portion of said image.

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52. The JPEG2000 file of claim 51 wherein said bounding region is rectangular.

53. The JPEG2000 file of claim 51 wherein additional information regarding  
said content is associated with said bounding region of said image.

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54. The JPEG2000 file of claim 47 wherein said information includes links to  
information external to said JPEG2000 file.



55. The JPEG2000 file of claim 47 wherein said binary data includes voice annotation.

56. The JPEG2000 file of claim 47 wherein said binary data includes object boundary information.

57. The JPEG2000 file of claim 47 wherein said information includes textual information regarding the content of said image free from copyright information.

58. The JPEG2000 file of claim 47 wherein said information is MPEG-7 data.

59. The JPEG2000 file of claim 58 wherein said MPEG-7 data is compliant with the MPEG-7 specification.